

# 4

## EXPLOITING SOFTWARE DIVERSIFICATION FOR WEBASSEMBLY

### 4.1 Offensive Diversification: Malware evasion

**TODO** The malware evasion paper

#### 4.1.2 Objective

Test and evade the resilience of WebAssembly malware detectors mentioned in Subsection 2.1.6.

#### 4.1.3 Approach

**TODO** We use wasm-mutate **TODO** How do we use it? **TODO**  
Controlled and uncontrolled diversification.

#### 4.1.4 Results

### 4.2 Defensive Diversification: Speculative Side-channel protection

**TODO** Go around the last paper

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### 4.2.2 Threat model

- Spectre timing cache attacks.
  - Rockiki paper on portable side channel in browsers.

### 4.2.3 Approach

- Use of wasm-mutate

### 4.2.4 Results

- Diminshing of BER